

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in this Application:

Listing of Claims:

1. (Canceled).
2. (Canceled).
3. (Canceled).
4. (Canceled).
5. (Canceled).
6. (Canceled).
7. (Currently amended) A process for lowering the Martensitic Transformation Temperature(As) of shape memory alloy having a low martensitic transformation temperature, said alloy comprising Copper and Zinc in the range of 62-86% of Copper and 10-28% of Zinc along with 6% to 10% of Aluminum, by a re-betatising treatment of previously high temperature betatised material, said process comprising the following steps of:
 - (i) selecting an alloy composition comprising Copper and Zinc in the range of 62-86% of Copper and 10-28% of Zinc along with 6% of Aluminum;
 - (ii) melting the alloy composition in an induction furnace operating in air under charcoal cover followed by casting into desired shapes to form a shaped material;
 - (iii) homogenizing the ~~above composition~~ shaped material at 800° C for a period of about two hours followed by cooling;
 - (iv) surface machining the shaped material for removing oxide scale formation;
 - ~~(v)analyzing the alloy composition~~
 - ~~(vi)~~(v) re-heating the shaped material at about 575° C for about three minutes;
 - ~~(vii)~~(vi) quenching said shaped material with cold water for obtaining a fully martensitic structure;
 - ~~(viii)obtaining a fully martensitic structure;~~
 - ~~(ix)identifying the soft shape memory material with martensitic structure; and~~
 - ~~(x)~~(vii) recording the temperature and structure of the material;

8. (Canceled).
9. (Canceled).
10. (Canceled).
11. (Canceled).
12. (Currently amended) A process as claimed in claim 7, wherein the two-step betatising and resultant lowering of transformation temperature is valid for higher an Aluminum content of ~~6-10%~~ 6% shape memory alloys.